

UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No.
MAS.003

Total Pages in this Submission

TO THE ASSISTANT COMMISSIONER FOR PATENTS

Box Patent Application
Washington, D.C. 20231

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled:

TELEPHONE AND DATA TRANSMITTING METHOD FOR TELEPHONE

and invented by:

Masahiro KONISHI

If a **CONTINUATION APPLICATION**, check appropriate box and supply the requisite information:

☒ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: _____

Which is a:

☒ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: _____

Which is a:

☒ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: _____

Enclosed are:

Application Elements

1. ☒ Filing fee as calculated and transmitted as described below
2. ☒ Specification having 10 pages and including the following:
 - a. ☒ Descriptive Title of the Invention
 - b. ☐ Cross References to Related Applications (if applicable)
 - c. ☐ Statement Regarding Federally-sponsored Research/Development (if applicable)
 - d. ☐ Reference to Microfiche Appendix (if applicable)
 - e. ☒ Background of the Invention
 - f. ☒ Brief Summary of the Invention
 - g. ☒ Brief Description of the Drawings (if drawings filed)
 - h. ☒ Detailed Description
 - i. ☒ Claim(s) as Classified Below
 - j. ☒ Abstract of the Disclosure

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Application Elements (Continued)

3. ☒ Drawing(s) (when necessary as prescribed by 35 USC 113)
- a. ☒ Formal Number of Sheets 4 (Figs. 1-4)
- b. ☐ Informal Number of Sheets _____
4. ☒ Oath or Declaration
- a. ☒ Newly executed (original or copy) ☐ Unexecuted
- b. ☐ Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional application only)
- c. ☒ With Power of Attorney ☐ Without Power of Attorney
- d. ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the prior application,
see 37 C.F.R. 1.63(d)(2) and 1.33(b).
5. ☐ Incorporation By Reference (usable if Box 4b is checked)
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under
Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby
incorporated by reference therein.
6. ☐ Computer Program in Microfiche (Appendix)
7. ☐ Nucleotide and/or Amino Acid Sequence Submission (if applicable, all must be included)
- a. ☐ Paper Copy
- b. ☐ Computer Readable Copy (identical to computer copy)
- c. ☐ Statement Verifying Identical Paper and Computer Readable Copy

Accompanying Application Parts

8. ☒ Assignment Papers (cover sheet & document(s))
9. ☐ 37 CFR 3.73(B) Statement (when there is an assignee)
10. ☐ English Translation Document (if applicable)
11. ☐ Information Disclosure Statement/PTO-1449 ☐ Copies of IDS Citations
12. ☐ Preliminary Amendment
13. ☒ Acknowledgment postcard
14. ☐ Certificate of Mailing
- ☐ First Class ☐ Express Mail (Specify Label No.): _____

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Accompanying Application Parts (Continued)

15. ☒ Certified Copy of Priority Document(s) (if foreign priority is claimed)

16. ☐ Additional Enclosures (please identify below):

Request That Application Not Be Published Pursuant To 35 U.S.C. 122(b)(2)

17. ☐ Pursuant to 35 U.S.C. 122(b)(2), Applicant hereby requests that this patent application not be published pursuant to 35 U.S.C. 122(b)(1). Applicant hereby certifies that the invention disclosed in this application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing of the application.

Warning

An applicant who makes a request not to publish, but who subsequently files in a foreign country or under a multilateral international agreement specified in 35 U.S.C. 122(b)(2)(B)(i), must notify the Director of such filing not later than 45 days after the date of the filing of such foreign or international application. A failure of the applicant to provide such notice within the prescribed period shall result in the application being regarded as abandoned, unless it is shown to the satisfaction of the Director that the delay in submitting the notice was unintentional.

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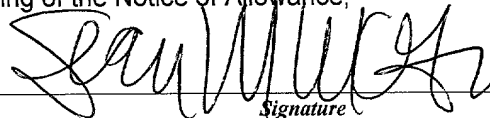
Total Pages in this Submission

Fee Calculation and Transmittal

CLAIMS AS FILED

For	#Filed	#Allowed	#Extra	Rate	Fee
Total Claims	6	- 20 =	0	x \$18.00	\$0.00
Indep. Claims	2	- 3 =	0	x \$80.00	\$0.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
BASIC FEE					\$710.00
OTHER FEE (specify purpose) ASSIGNMENT RECORDAL FEE					\$40.00
TOTAL FILING FEE					\$750.00

- ☒ A check in the amount of **\$750.00** to cover the filing fee is enclosed.
- ☒ The Commissioner is hereby authorized to charge and credit Deposit Account No. **50-0481** as described below. A duplicate copy of this sheet is enclosed.
- ☐ Charge the amount of _____ as filing fee.
- ☒ Credit any overpayment.
- ☒ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.
- ☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).


Signature

SEAN M. MCGINN
REG. NO. 34,386

Dated: **OCTOBER 26, 2000**

CUSTOMER NO.: 21254

CC:

TELEPHONE

AND DATA TRANSMITTING METHOD FOR TELEPHONE

BACKGROUND OF THE INVENTION

Field of the Invention

5 The present invention generally relates to a telephone and a data transmitting method for the telephone, and more particularly to a telephone that transmits data received through a transmitting provider to an apparatus by wireless and a data transmitting method for the telephone.

Description of Related Art

10 Japanese Patent Provisional Publication No. 7-219967 discloses an image searching apparatus that receives and displays still images and obtains a desired image selected from the still images. Japanese Patent Provisional Publication No. 10-215397 discloses a digital electronic camera that displays index images and receives a desired image selected from the index images.

15 Japanese Patent Provisional Publication No. 10-126565 discloses a connecting device that connects apparatuses such as a camera and a scanner and a terminal with a memory card, cables and a wireless communicating device. Japanese Patent Provisional Publication No. 8-88841 discloses a TV cellular phone that compresses an obtained image and transmits the compressed image to
20 an apparatus, which displays the image.

 In recent years, cellular phones have been developed, and they are capable of inputting and outputting character data and simple image data. Also, digital cameras and digital color printers are now being widely used, and digital images can be easily inputted and outputted.

However, even a developed cellular phone can not display and store an image of high quality due to its small recording capacity and poor performance.

The image searching apparatus in Japanese Patent Provisional Publication No. 7-219967 and the digital electronic camera in Japanese Patent Provisional Publication No. 10-215397 can not transmit received image data to apparatuses by wireless. The connecting device in Japanese Patent Provisional Publication No. 10-126565 and the TV cellular phone in Japanese Patent Provisional Publication No. 8-88841 only have devices that receive images and transmit the images to transmitting providers.

SUMMARY OF THE INVENTION

The present invention has been developed in view of the above-described circumstances, and has as its object the provision of a telephone and a data transmitting method for the telephone in which a desired apparatus can display and store image, voice or character data received through a transmitting provider.

To achieve the above-described object, the present invention is directed to a telephone that receives data of at least one of an image and characters through a transmitting provider, comprising: a designating device that designates an apparatus to which the received data is to be transmitted; and a wireless communicating device that communicates with the apparatus without the transmitting provider and transmits the data to the apparatus designated by said designating device.

According to the present invention, the telephone comprises the designating device that designates an apparatus to which the received data of an image and/or characters is to be transmitted, and the wireless communicating device that communicates with the apparatus without the transmitting provider and transmits the data to the apparatus designated by the designating device.

Thus, the desired apparatus can display or store the data received through the transmitting provider.

BRIEF DESCRIPTION OF THE DRAWINGS

The nature of this invention, as well as other objects and advantages thereof, will be explained in the following with reference to the accompanying drawings, in which like reference characters designate the same or similar parts throughout the figures and wherein:

Fig. 1 is an outside view showing a telephone to which the present invention is applied;

Fig. 2 is a block diagram showing a structure of the telephone in Fig. 1;

Fig. 3 is a diagram showing a data transmitting method for the telephone in which the telephone receives and transmits data; and

Fig. 4 is a diagram showing a menu selecting picture displayed in the data transmitting method.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Hereunder the preferred embodiment of the present invention is explained in detail according to the accompanying drawings.

Fig. 1 is an outside view showing a telephone 10 to which the present invention is applied.

As shown in Fig. 1, the telephone 10 comprises an antenna 12 for communicating with a transmitting provider by wireless, a wireless communicating device 14 for communicating with apparatuses by wireless, a displaying device 16 that displays communication information and an image 15, designating devices 18 that designate and select a telephone number and

character, image or voice data and designate an apparatus to which the data is to be outputted, an address or the like, a receiver 20 that outputs voice, and a transmitter 22.

Fig. 2 is a block diagram of the telephone 10 to which the present invention is applied.

As shown in Fig. 2, the telephone 10 comprises a wireless communicating device 24 for communicating with a transmitting provider by wireless, a transmitting and receiving circuit 26, the wireless communicating device 14 for communicating with the apparatuses by wireless, a transmitting and receiving circuit 28, and a transmitting and receiving buffer 30 that temporarily stores data that has been received or is to be transmitted.

The telephone 10 also comprises a CPU 32 that controls the whole telephone 10, a PROM 34 that stores a program for operating the, constants, telephone numbers, addresses and so on, a RAM 36 in which the CPU 32 executes a processing, a D/A converter 38 that converts digital voice data into analog voice data for the receiver 20, and an A/D converter 40 that converts analog voice data inputted from the transmitter 22 into digital voice data.

In the telephone 10, the CPU 32 is connected with circuits including the displaying device 16 and the designating devices 18 through a communicating device composed of bus lines and I/Os to control the circuits.

The wireless communicating device 14 uses a light such as an electric wave, a supersonic wave and an infrared light. In the case of the electric wave, the wireless communicating device 14 may use the Bluetooth. In the case of the infrared light, the wireless communicating device 14 may use the IrDA.

Fig. 3 is a diagram showing the data transmitting method for the telephone 10 in which it receives and transmits data.

Information on an image captured by a camera 42 or image, voice or character data stored in a server 44 is transmitted to a cellular phone 10A by

wireless or wire. The cellular phone 10A and the telephone 10 start communicating with each other through the transmitting provider 46, and the information on the image, voice or character data stored in the camera 42 or the server 44 or index images are transmitted to the telephone 10 through the cellular phone 10A. The telephone 10 receives the information or the index images, and informs the user of the information or the index images by displaying on the displaying device 16. The user designates data to be received and an apparatus to which the data is to be transmitted with the designating devices 18. The telephone 10 receives the designated data through the transmitting provider 46, and outputs the data to the designated apparatus. The apparatus has a displaying device, a recording device or an outputting device, and is a personal computer 48, a camera 50, a printer 52 or the like.

The cellular phone 10A may start communicating with the telephone 10, and the telephone 10 may start communicating with the cellular phone 10A.

The operation of the telephone 10 when it receives the information on the image, voice or character data will now be explained.

When the CPU 32 of the telephone 10 detects that the telephone 10 has received the information on the image, voice or character data, the displaying device 16 displays a menu selecting picture in Fig. 4. In Fig. 4, a cursor is on an item of a "RECEIVE IMAGE" mode, and the telephone 10 receives information on the images if the user designates "SELECT" (not shown) in this state. As shown in Fig. 4, the telephone 10 has other modes, which are a "TRANSMIT IMAGE" mode for transmitting an image, a "RECEIVE MAIL" mode for receiving characters and a "TRANSMIT MAIL" mode for transmitting characters. The telephone 10 may have modes for receiving and transmitting voice.

Then, the user designates an image to be received while looking at the index image and the information on the image such as a file name displayed on

the displaying device in Fig. 16.

The CPU 32 may determine the size of the data to be received and compare it with an available capacity of the RAM 36 or the PROM 34 in the telephone 10, and the data may be stored in the telephone 10 instead of being outputted to an apparatus if possible.

Next, addresses of the apparatuses to which the data is to be transmitted are designated with the designating devices 18, and then the data starts to be transmitted to the designated apparatuses. Since image data, voice data and music data are generally large, the index image is displayed when the image is selected and a title or a file name is displayed when a voice or a mail is selected, and the data is received after the image, voice or character data to be received is selected. After the telephone 10 receives the data through the transmitting provider 46, the data is transmitted to the wireless communicating device 14 through the transmitting and receiving circuit 26, the transmitting and receiving buffer 30 and the transmitting and receiving circuit 28, and outputted to the apparatuses.

The apparatuses that have received the data store, display or print the data.

As described above, the telephone 10 has the wireless communicating device 14 for high-speed-communicating with the apparatuses without the transmitting provider 46, and transmits the data received through the transmitting provider 46 to one or more apparatuses through the wireless communicating device 14, which store, display or print the data. Therefore, the telephone 10 can receive the data and transmit the data to the apparatuses even if the telephone 10 can not store the whole data or display the image of high quality due to the small recording capacity or poor performance of the displaying device.

The telephone 10 is a cellular phone that communicates with the transmitting provider 46 by wireless in the embodiment, but the present

invention is not limited to this. The present invention may be applied to a personal handy-phone system (PHS) or a wired telephone.

As explained above, the telephone according to the present invention comprises the designating device that designates an apparatus to which the received data of an image and/or characters is to be transmitted, and the wireless communicating device that communicates with the apparatus without the transmitting provider and transmits the data to the apparatus designated by the designating device. Thus, the desired apparatus can display or store the data received through the transmitting provider.

It should be understood, however, that there is no intention to limit the invention to the specific forms disclosed, but on the contrary, the invention is to cover all modifications, alternate constructions and equivalents falling within the spirit and scope of the invention as expressed in the appended claims.

WHAT IS CLAIMED IS:

1. A telephone that receives data of at least one of an image and characters through a transmitting provider, comprising:
 - a designating device that designates an apparatus to which the received data is to be transmitted; and
 - a wireless communicating device that communicates with the apparatus without the transmitting provider and transmits the data to the apparatus designated by said designating device.
2. The telephone as set forth in claim 1, further comprising a displaying device that displays that the telephone has received information on data of the at least one of image and characters through the transmitting provider.
3. The telephone as set forth in claim 2, wherein:
 - said displaying device displays the received information; and
 - said designating device designates the data to be received from the information displayed by said displaying device.
4. A data transmitting method for a telephone, comprising the steps of:
 - receiving data of at least one of an image and characters through a transmitting provider;
 - designating an apparatus to which the received data is to be transmitted;
 - and
 - transmitting the data to the designated apparatus with a wireless communicating device that communicates with the apparatus without the transmitting provider.

5. The data transmitting method for the telephone as set forth in claim 4, further comprising the step of displaying that the telephone has received information on data of the at least one of image and characters through the transmitting provider.

6. The data transmitting method for the telephone as set forth in claim 5, wherein:

the displaying step comprises the step of displaying the received information; and

the data to be received is designated from the received information.

ABSTRACT OF THE DISCLOSURE

A telephone comprises designating devices that designate an apparatus to which received data of an image and/or characters is to be transmitted, and a wireless communicating device that communicates with the apparatus without a transmitting provider and transmits the data to the apparatus designated by the designating devices. In addition, the desired apparatus can display or store the data received through the transmitting provider.

FIG. 1

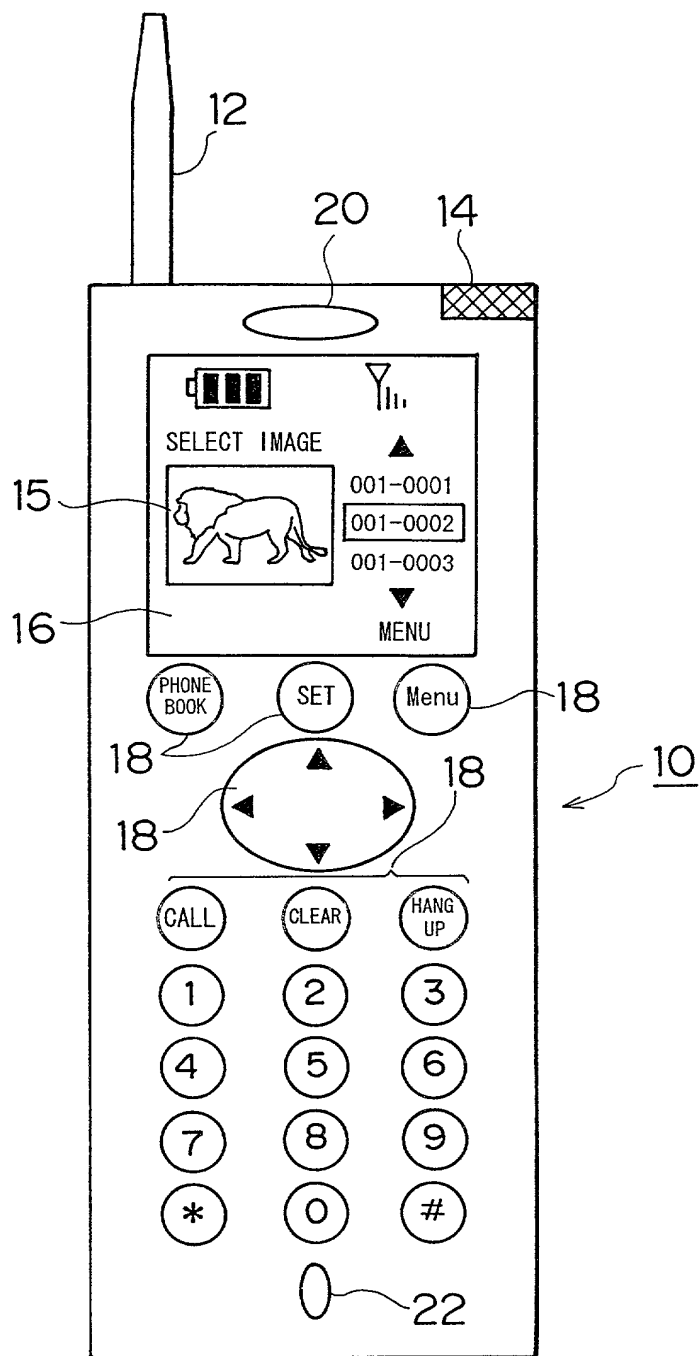


FIG. 2

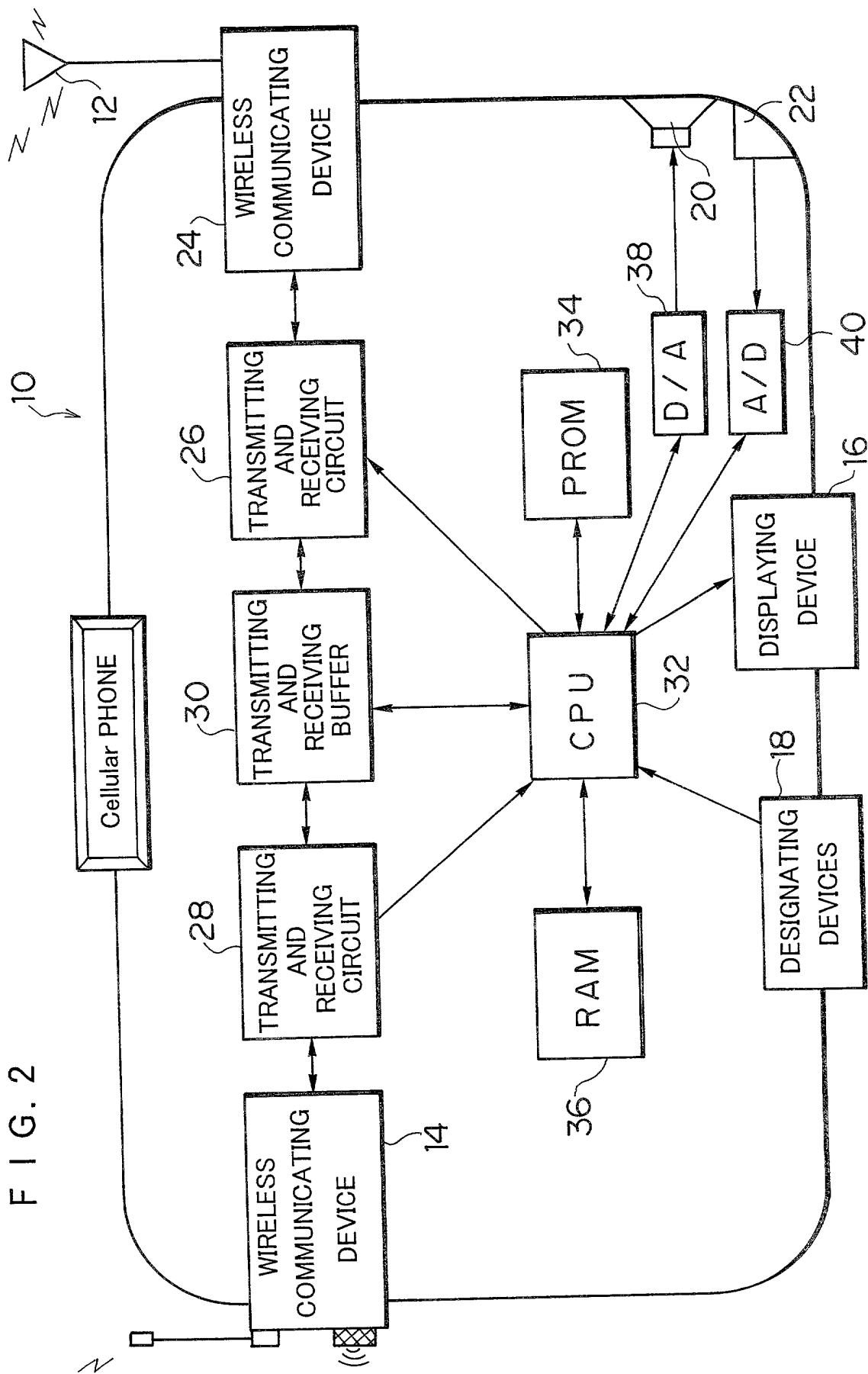
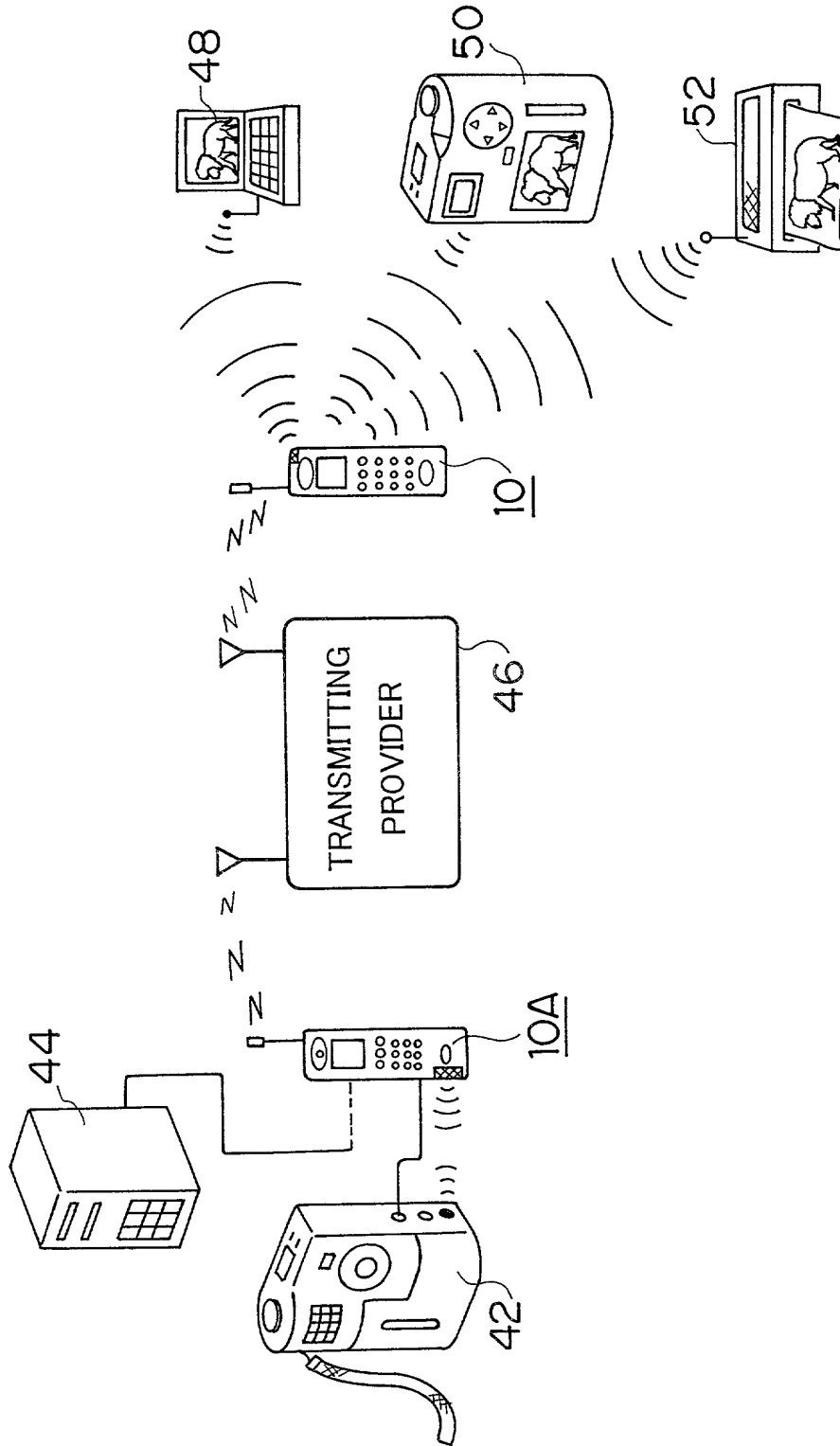
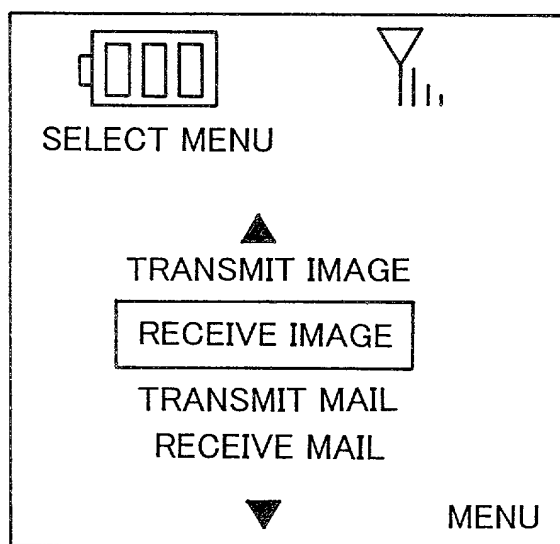


FIG. 3



F I G . 4



DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: TELEPHONE AND DATA TRANSMITTING METHOD FOR TELEPHONE

the specification of which:
(check one)

☒ (is attached hereto)
_____ was filed on _____,
as Application Serial No. _____,
and was amended on _____. (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56*

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

No. 11-308645	Japan	29th October, 1999	priority claimed	
(Number)	(Country)	(Day/Month/Year Filed)	yes	no
_____	_____	_____	yes	no
(Number)	(Country)	(Day/Month/Year Filed)	yes	no
_____	_____	_____	yes	no
(Number)	(Country)	(Day/Month/Year Filed)	yes	no

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)

(Filing Date)

(Status: patented, pending, abandoned)

Power of Attorney: As a named inventor, I hereby appoint Sean M. McGinn, Reg. No. 34, 386, and Frederick W. Gibb, III, Reg. No. 37,629, as attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. All correspondence should be directed to **McGinn & Gibb, P.C., 1701 Clarendon Boulevard, Suite 100, Arlington, Virginia 22209**. Telephone calls should be directed to McGinn & Gibb, P.C. at (703) 294-6699.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sole
Joint Inventor, If Any Masahiro KONISHI

Inventor's Signature Masahiro Konishi Date 13th October, 2000

Residence Asaka-shi, Saitama, Japan

Citizenship Japanese

Post Office Address 11-46, Senzui 3-chome, Asaka-shi, Saitama, Japan

Full Name of Second
Joint Inventor, If Any _____

Inventor's Signature _____ Date _____

Residence _____

Citizenship _____

Post Office Address _____

Full Name of Third
Joint Inventor, If Any _____

Inventor's Signature _____ Date _____

Residence _____

Citizenship _____

Post Office Address _____

Full Name of Fourth
Joint Inventor, If Any _____

Inventor's Signature _____ Date _____

Residence _____

Citizenship _____

Post Office Address _____

(An additional sheet(s) is/are attached hereto if the present invention includes more than four inventors.)

*Title 37, Code of Federal Regulations, § 1.56:

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith toward the Patent and Trademark Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned.

(b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and (1) it establishes by itself or in combination with other information, a prima facie case of unpatentability; or (2) it refutes, or is inconsistent with, a position the applicant takes in: (i) opposing an argument of unpatentability relied on by the Office, or (ii) asserting an argument of patentability.